CORE AREA TERRITORY PLANNING FOR OPTIMIZING DRIVER FAMILIARITY AND ROUTE FLEXIBILITY

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ABSTRACT OF THE DISCLOSURE

10   Systems, methods, and apparatuses for route planning are disclosed. The disclosure in one embodiment addresses the task of planning optimal delivery routes that satisfy a stochastic daily demand while promoting driver familiarity over time. A model for estimating the value of driver familiarity is disclosed. Both an empirical and a mathematical model for estimating the value of route consistency are disclosed.

15   Models for completing a Core Area Route Design are provided, an embodiment of which involves the concepts of combinatorial optimization, meta-heuristic algorithms, tabu search heuristics, network formulation modeling, and multi-stage graph modeling. Methods for ordering an optimal stop sequence with minimal cost are disclosed.

20   This Abstract is provided to comply with the rules, which require an abstract to quickly inform a searcher or other reader about the subject matter of the application. This Abstract is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims.

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